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111
A

176 L A T K C D L C L N S P C K N N A I C E T T S S R K Y T C N C T P G F Y G V H C CE-Slit
904 I L A K C N A C F E Q P C Q N Q A Q C V A L P Q R E Y Q C L C Q P G Y H G K H C D-Slit
911 I L A K C N P C L S N P C K N D G T C N S D P V D F Y R C T C P Y G F K G Q D C H-Slit1

216 E N Q I D A C Y G S P C L N N A T C K V - - A Q A G R F N C Y C N K G F E G D Y CE-Slit
944 E F M I D A C Y G N P C R N N A T C T V - - L E E G R F S C Q C A P G Y T G A R D-Slit
951 D V P I H A C I S N P C K H G G T C H L K E G E E D G F W C I C A D G F E G E N H-Slit1

254 C E K N I D D C V N S - K C E N G G K C V D L V R F C S E E L K N F Q S F Q I N CE-Slit
982 C E T N I D D C L G E I K C Q N N A T C I D - - - - - G V E D-Slit
991 C E V N V D D C - E D N D C E N N S T C V D - - - - - G I N H-Slit1

293 S Y R C D C P M E Y E G K H C E D K L E Y C T K K L N P C E N N G K C I P I N G CE-Slit
1007 S Y K C E C Q P G F S G E F C D T K I Q F C S P E F N P C A N G A K C M D H F T D-Slit
1015 N Y T C L C P P E Y T G E L C E E K L D F C A Q D L N P C Q H D S K C I L T P K H-Slit1
D P L P V M-Slit2

333 S Y S C M C S P G F T G N N C E T N I D D C K N V E C Q N G G S C V D G I L S Y CE-Slit
1047 H Y S C D C Q A G F H G T N C T D N I D D C Q N H M C Q N G G T C V D G I N D Y D-Slit
1055 G F K C D C T P G Y V G E H C D I D F D D C Q D N K C K N G A H C T D A V N G Y H-Slit1
1 N N D D C V G H K C R H G A Q C V D E V N G Y M-Slit1
1 W P R C E C M P G Y A G D N C S E N Q D D C R D H R C Q N G A Q C M D E V N S Y H-Slit2
6 H H R C E C M L G Y T G D N C S E N Q D D C K D H K C Q N G A Q C V D E V N S Y M-Slit2

373 D C L C R P G Y A G Q Y C E I P P M M D M E Y Q K T D A C Q Q S A C G Q G - E C CE-Slit
1087 Q C R C P D D Y T G K Y C E G H N M I S M M Y P O T S P C Q N H E C K H G V - C D-Slit
1095 T C I C P E G Y S G L F C E F S P - - P M V L P R T S P C D N F D C Q N G A Q C H-Slit1
24 T C I C P Q G F S G L F C E H P P - - P M V L L O T S P C D Q Y E C Q N G A Q C M-Slit1
41 S C L C A E G Y S G Q L C E I P P - - H L P A P K - S P C E G T E C Q N G A N C H-Slit2
46 A C L C V E G Y S G Q L C E I P P - - - - - A P R - S S C E G T E C Q N G A N C M-Slit2

412 V A S Q N - S S D F T C K C H E G F S G P S C D R Q M S V G F K N P G A Y L A L CE-Slit
1126 F Q P N A Q G S D Y L C R C H P G Y T G K W C E Y L T S I S F V H N N S F V E L D-Slit
1133 I V R I N E P - - - I C Q C L P G Y Q G E K C E K L V S V N F I N K E S Y L Q I H-Slit1
62 I V V Q Q E P - - - T C R C P P G F A G P R C E K L I T V N F V G K D S Y V E L M-Slit1
78 V D Q G N R P - - - V C Q C L P G F G G P E C E K L L S V N F V D R D T Y L Q F H-Slit2
80 V D Q G S R P - - - V C Q C L P G F G G P E C E K L L S V N F V D R D T Y L Q F M-Slit2

451 D P L A S - - D G T I T M T L R T T S K I G I L L Y Y G D D H F V S A E L Y D G CE-Slit
1166 E P L R T R P E A N V T I V F S S A E Q N G I L M Y D G Q D A H L A V E L F N G D-Slit
1170 P S A K V R P Q T N I T L Q I A T D E D S G I L L Y K G D K D H I A V E L Y R G H-Slit1
99 A S A K V R M-Slit1
115 T D L Q N W X R X N I T L Q V F T A E D N G I L L Y N G G N D H I A V X L Y X G H-Slit2
117 T D L Q N W P R A N I T L Q V S T A E D N G I L L Y N G D N D H I A V E L Y M-Slit2

489 R V K L V Y Y I G N F P A S H M Y S S V K V N D G L P H R I S I R T S E R K C F CE-Slit
1206 R I R V S Y D V G N H P V S T M Y S F E M V A D G K Y H A V E L L A I K K N F T D-Slit
1210 R V R A S Y D T G S H P A S A I Y S V E T I N D G N F H I V E L L A L D Q S L S H-Slit1
155 H V R F S Y H-Slit2

529 L Q I D K N P V Q I V E N S G K S D I Q L I T K G K E M L Y I G G L P I E K S Q D CE-Slit
1246 L R V D R G L A R S I I N E G S N D Y L - - K L T T P M F L G G L P V D P A Q Q D-Slit
1250 L S V D G G N P K I I T N L S K Q S T L - - N F D S P L Y V G G M P G K S N V A H-Slit1
1 I L - - - - - D V A M-Slit1

569 A K R R F H V K N S E S L K G C I S S I T I N E V P I N L Q Q A L E N V N T E Q CE-Slit
 1284 A Y K N W Q I R N L T S F K G C M K E V W I N H K L V D F G N A Q R Q Q K I T P D-Slit
 1288 S L R Q A P G Q N G T S F H G C I R N L Y I N S E L Q D F Q K V P M Q T G I L P H-Slit1
 6 S L R Q A P G E N G T S F H G C I R N L Y I N S E L Q D F R K M P M Q T G I L P M-Slit1

609 S C - - - - - S A T V N F - - - - - CE-Slit
 1324 G C A L - - - - L E G E Q Q E E E D D E Q D F M D E - - - - - T P H I K E E P D-Slit
 1328 G C E P C H K K V C A H G T C Q P S S Q A G F T C E C Q E G W M G P L C D Q R T H-Slit1
 46 G C E P C H K K V C A H G C C Q P S S Q S G F T C E C E E G W M G P L C D Q R T M-Slit1

617 - - - C A G I D C G N G - K C T N N A L S P K G Y M C Q C D S H F S G E H C D E CE-Slit
 1354 V D P C L E N K C R R G S R C V P N S N A R D G Y Q C K C K H G Q R G R Y C D Q D-Slit
 1368 N D P C L G N K C V H G T - C L P I N A F - - S Y S C K C L E G H G G V L C D E H-Slit1
 86 N D P C L G N K C V H G T - C L P I N A F - - S Y S C K C L E G H G G V L C D E M-Slit1

653 - - - - - CE-Slit
 1394 G E G S T E P - - - - - P T V T A A S - - D-Slit
 1405 E E D L F N P C Q A I K C K H G K C R L S G L G Q P Y C E C S S G Y T G D S C D H-Slit1
 123 E E D L F N P C Q M I K C K H G K C R L S G V G Q P Y C E C N S G F T G D S C D M-Slit1
 1 - - - - - Q C H I S D Q G E P Y C L C Q P G F S G E H C Q H-Slit2
 1 - - - - - A F K C H H G Q C H I S D R G E P Y C L C Q P G F S G H H C E M-Slit2

655 K R I K C D K Q K F R R H H I E N E - - - - C R S V D R I K I A E C N G Y C G G CE-Slit
 1405 T - - - C R K E Q V R E Y Y T E N D - - - - C R S R Q P L K Y A K C V G G C G - D-Slit
 1445 R E I S C R G E R I R D Y Y Q K Q Q G Y A A C Q T T K K V S R L E C R G G C A G H-Slit1
 163 R E I S C R G E R I R D Y Y Q K Q Q G Y A A C Q T T K K V S R L E C R G G C A G M-Slit1
 25 Q E N P C L G Q V V R E V I R R Q K G Y A S C A T A S K V P I M E C R G G C - G H-Slit2
 32 Q E N P C M G E I V R E A I R R Q K D Y A S C A T A S K V P I M E C R G G C - G M-Slit2

689 E Q N C C T A V K K K Q R K V K M I C K N G T T K I S T V H I I R Q C Q C E P T CE-Slit
 1440 - N Q C C A A K I V R R R K V R M V C S N N R K Y I K N L D I V R K C G C - - T D-Slit
 1485 G Q - C C G P L R S K R R K Y S F E C T D G S S F V D E V E K V V K C G C T R - H-Slit1
 203 G Q - C C G P L R S K R R K Y S F E C T D G S S F V D E V E K V V K C G C A R - M-Slit1
 64 P Q - C C Q P T R S K R R K Y V F Q C T D G S S F V E E V E R H L E C G C L A - H-Slit2
 71 T T - C C Q P I R S K R R K Y V F Q C T D G S S F V E E V E R H L E C G C R A - M-Slit2

729 K S V L - - S E K CE-Slit
 1477 K K C Y D-Slit
 1523 - - - - C V S H-Slit1
 241 - - - - C A S M-Slit1
 102 - - - - C - S H-Slit2
 109 - - - - C - S M-Slit2

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Table 2.

Alignment of human Slit-1 (SEQ ID NO:02) and Drosophila Slit-1 (SEQ ID NO:07)

1	M	A	A	P	S	R	T	T	L	M	P	P	P	F	R	L	Q	L	R	L	-	L	I	L	P	I	L	L	L	R	H	D	A	V	H	A	E	P	Y	D-Slit			
1	M	R	G	V	G	W	Q	-	-	-	-	-	-	-	M	L	S	L	S	L	G	L	V	L	A	I	L	-	-	-	-	-	-	-	-	-	-	-	-	-	H-Slit1		
40	S	G	G	F	G	S	S	A	V	S	S	G	G	L	G	S	V	G	I	H	I	P	G	G	G	V	G	V	I	T	E	A	R	C	P	R	V	C	S	C	D-Slit		
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N	K	V	A	P	Q	A	C	P	A	Q	C	S	C	H-Slit1
80	T	G	L	N	V	D	C	S	H	R	G	L	T	S	V	P	R	K	I	S	A	D	V	E	R	L	E	L	Q	G	N	N	L	T	V	I	Y	E	T	D	D-Slit		
35	S	G	S	T	V	D	C	H	G	L	A	L	R	S	V	P	R	N	I	P	R	N	T	E	R	L	D	L	N	G	N	N	I	T	R	I	T	K	T	D	H-Slit1		
120	F	Q	R	L	T	K	L	R	M	L	Q	L	T	D	N	Q	I	H	T	I	E	R	N	S	F	Q	D	L	V	S	L	E	R	L	-	-	-	-	-	-	D-Slit		
75	F	A	G	L	R	H	L	R	V	L	Q	L	M	E	N	K	I	S	T	I	E	R	G	A	F	Q	D	L	K	E	L	E	R	L	R	L	N	R	N	H	H-Slit1		
154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	I	S	N	N	V	I	T	T	V	G	R	R	V	F	K	G	A	Q	S	L	R	D-Slit		
115	L	Q	L	F	P	E	L	L	F	L	G	T	A	K	L	Y	R	L	D	L	S	E	N	Q	I	Q	A	I	P	R	K	A	F	R	G	A	V	D	I	K	H-Slit1		
176	S	L	Q	L	D	N	N	Q	I	T	C	L	D	E	H	A	F	K	G	L	V	E	L	E	I	L	T	L	N	N	N	N	L	T	S	L	P	H	N	I	D-Slit		
155	N	L	Q	L	D	Y	N	Q	I	S	C	I	E	D	G	A	F	R	A	L	R	D	L	E	V	L	T	L	N	N	N	N	I	T	R	L	S	V	A	S	H-Slit1		
216	F	G	G	L	G	R	L	R	A	L	R	L	S	D	N	P	F	A	C	D	C	H	L	S	W	L	S	R	F	L	R	S	A	T	R	L	A	P	Y	T	D-Slit		
195	F	N	H	M	P	K	L	R	T	F	R	L	H	S	N	N	L	Y	C	D	C	H	L	A	W	L	S	D	W	L	R	K	R	P	R	V	G	L	Y	T	H-Slit1		
256	R	C	Q	S	P	S	Q	L	K	G	Q	N	V	A	D	L	H	D	Q	E	F	K	C	S	G	L	T	E	-	H	A	P	M	-	-	-	E	C	G	A	D-Slit		
235	Q	C	M	G	P	S	H	L	R	G	H	N	V	A	E	V	Q	K	R	E	F	V	C	S	D	E	E	E	G	H	Q	S	F	M	A	P	S	C	S	V	H-Slit1		
292	E	N	S	C	P	H	P	C	R	C	A	D	G	I	V	D	C	R	E	K	S	L	T	S	V	P	V	T	L	P	D	D	T	T	D	V	R	L	E	Q	D-Slit		
275	L	H	-	C	P	A	A	C	T	C	S	N	N	I	V	D	C	R	G	K	G	L	T	E	I	P	T	N	L	P	E	T	I	T	E	I	R	L	E	Q	H-Slit1		
332	N	F	I	T	E	L	P	P	K	S	F	S	S	F	R	R	L	R	R	I	D	L	S	N	N	N	I	S	R	I	A	H	D	A	L	S	G	L	K	Q	D-Slit		
314	N	T	I	K	V	I	P	P	G	A	F	S	P	Y	K	K	L	R	R	I	D	L	S	N	N	Q	I	S	E	L	A	P	D	A	F	Q	G	L	R	S	H-Slit1		
372	L	T	T	L	V	L	Y	G	N	K	I	K	D	L	P	S	G	V	F	K	G	L	G	S	L	R	L	L	L	N	A	N	E	I	S	C	I	R	K	D-Slit			
354	L	N	S	L	V	L	Y	G	N	K	I	T	E	L	P	K	S	L	F	E	G	L	F	S	L	Q	L	L	L	L	N	A	N	K	I	N	C	L	R	V	H-Slit1		
412	D	A	F	R	D	L	H	S	L	S	L	L	S	L	Y	D	N	N	I	Q	S	L	A	N	G	T	F	D	A	M	K	S	M	K	T	V	H	L	A	K	D-Slit		
394	D	A	F	Q	D	L	H	N	L	N	L	L	S	L	Y	D	N	K	L	Q	T	I	A	K	G	T	F	S	P	L	R	A	I	Q	T	M	H	L	A	Q	H-Slit1		
452	N	P	F	I	C	D	C	N	L	R	W	L	A	D	Y	L	H	K	N	P	I	E	T	S	G	A	R	C	E	S	P	K	R	M	H	R	R	R	I	E	D-Slit		
434	N	P	F	I	C	D	C	H	L	K	W	L	A	D	Y	L	H	T	N	P	I	E	T	S	G	A	R	C	T	S	P	R	R	L	A	N	K	R	I	G	H-Slit1		
492	S	L	R	E	E	K	F	K	C	S	-	W	G	E	L	R	M	K	L	S	G	E	C	R	M	D	S	D	C	P	A	M	C	H	C	E	G	T	T	V	D-Slit		
474	Q	I	K	S	K	K	F	R	C	S	G	T	E	D	Y	R	S	K	L	S	G	D	C	F	A	D	L	A	C	P	E	K	C	R	C	E	G	T	T	V	H-Slit1		
531	D	C	T	G	R	R	L	K	E	I	P	R	D	I	P	L	H	T	T	E	L	L	N	D	N	E	L	G	R	I	S	S	D	G	L	F	G	R	L	D-Slit			
514	D	C	S	N	Q	K	L	N	K	I	P	E	H	I	P	Q	Y	T	A	E	L	R	L	N	N	N	E	F	T	V	L	E	A	T	G	I	F	K	K	L	H-Slit1		

571 P H L V K L E L K R N Q L T G I E P N A F E G A S H I Q E L Q L G E N K I K E I D-Slit
554 P Q L R K I N F S N N K I T D I E E G A F E G A S G V N E I L L T S N R L E N V H-Slit1

611 S N K M F L G L H Q L K T L - - - - - N L D-Slit
594 Q H K M F K G L E S L K T L M L R S N R I T C V G N D S F I G L S S V R L L S L H-Slit1

627 Y D N Q I S C V M P G S F E H L N S L T S L N L A S N P F N C N C H L A W F A E D-Slit
634 Y D N Q I T T V A P G A F D T L H S L S T L N L L A N P F N C N C Y L A W L G E H-Slit1

667 C V R K K S L N G G A A R C G A P S K V R D V Q I K D L P H S E F K C S S E N S D-Slit
674 W L R K K R I V T G N P R C Q K P Y F L K E I P I Q D V A I Q D F T C D D G N D H-Slit1

707 E - G C L G D G Y C P P S C T C T G T V V A C S R N Q L K E I P R G I P A E T S D-Slit
714 D N S C S P L S R C P T E C T C L D T V V R C S N K G L K V L P K G I P R D V T H-Slit1

746 E L Y L E S N E I E Q I H Y E R I R H L R S L T R L D L S N N Q I T I L S N Y T D-Slit
754 E L Y L D G N Q F T L V P K E - L S N Y K H L T L I D L S N N R I S T L S N Q S H-Slit1

786 F A N L T K L S T L I I S Y N K L Q C L Q R H A L S G L N N L R V V S L H G N R D-Slit
793 F S N M T Q L L T L I L S Y N R L R C I P P R T F D G L K S L R L L S L H G N D H-Slit1

826 I S M L P E G S F E D L K S L T H I A L G S N P L Y C D C G L K W F S D W I K L D-Slit
833 I S V V P E G A F N D L S A L S H L A I G A N P L Y C D C N M Q W L S D W V K S H-Slit1

866 D Y V E P G I A R C A E P E Q M K D K L I L S T P S S S F V C R G R V R N D I L D-Slit
873 E Y K E P G I A R C A G P G E M A D K L L L T T P S K K F T C Q G P V D V N I L H-Slit1

906 A K C N A C F E Q P C Q N Q A Q C V A L P Q R E Y Q C L C Q P G Y H G K H C E F D-Slit
913 A K C N P C L S N P C K N D G T C N S D P V D F Y R C T C P Y G F K G Q D C D V H-Slit1

946 M I D A C Y G N P C R N N A T C T V L E - - E G R F S C Q C A P G Y T G A R C E D-Slit
953 P I H A C I S N P C K H G G T C H L K E G E E D G F W C I C A D G F E G E N C E H-Slit1

984 T N I D D C L G E I K C Q N N A T C I D G V E S Y K C E C Q P G F S G E F C D T D-Slit
993 V N V D D C - E D N D C E N N S T C V D G I N N Y T C L C P P E Y T G E L C E E H-Slit1

1024 K I Q F C S P E F N P C A N G A K C M D H F T H Y S C D C Q A G F H G T N C T D D-Slit
1032 K L D F C A Q D L N P C Q H D S K C I L T P K G F K C D C T P G Y V G E H C D I H-Slit1

1064 N I D D C Q N H M C Q N G G T C V D G I N D Y Q C R C P D D Y T G K Y C E G H N D-Slit
1072 D F D D C Q D N K C K N G A H C T D A V N G Y T C I C P E G Y S G L F C E F S P H-Slit1

1104 M I S M M Y P Q T S P C Q N H E C K H G V - C F Q P N A Q G S D Y L C R C H P G D-Slit
1112 - - P M V L P R T S P C D N F D C Q N G A Q C I - - - V R I N E P I C Q C L P G H-Slit1

1143 Y T G K W C E Y L T S I S F V H N N S F V E L E P L R T R P E A N V T I V F S S D-Slit
1147 Y Q G E K C E K L V S V N F I N K E S Y L Q I P S A K V R P Q T N I T L Q I A T H-Slit1

1183 A E Q N G I L M Y D G Q D A H L A V E L F N G R I R V S Y D V G N H P V S T M Y D-Slit
1187 D E D S G I L L Y K G D K D H I A V E L Y R G R V R A S Y D T G S H P A S A I Y H-Slit1

1223 S F E M V A D G K Y H A V E L L A I K K N F T L R V D R G L A R S I I N E G S N D-Slit
1227 S V E T I N D G N F H I V E L L A L D Q S L S L S V D G G N P K I I T N L S K Q H-Slit1

1263 D Y L K L T T P M F L G G L P V D P A Q Q A Y K N W Q I R N L T S F K G C M K E D-Slit
1267 S T L N F D S P L Y V G G M P G K S N V A S L R Q A P G Q N G T S F H G C I R N H-Slit1

1303 V W I N H K L V D F G N A Q R Q Q K I T P G C A L - - - - L E G E Q Q E E E D D D-Slit
1307 L Y I N S E L Q D F Q K V P M Q T G I L P G C E P C H K K V C A H G T C Q P S S H-Slit1

1339 E Q D F M D E - - - - - T P H I K E E P V D P C L E N K C R R G S R C V P N S D-Slit
1347 Q A G F T C E C Q E G W M G P L C D Q R T N D P C L G N K C V H G T - C L P I N H-Slit1

1373 N A R D G Y Q C K C K H G Q R G R Y C D Q G E G S T E P - - - - - D-Slit
1386 A F - - S Y S C K C L E G H G G V L C D E E E D L F N P C Q A I K C K H G K C R H-Slit1

1401 - - - - - P T V T A A S - - - - - T C R K E Q V R E Y Y T E N D - D-Slit
1424 L S G L G Q P Y C E C S S G Y T G D S C D R E I S C R G E R I R D Y Y Q K Q Q G H-Slit1

1423 - - - C R S R Q P L K Y A K C V G G C - G N Q C C A A K I V R R R K V R M V C S D-Slit
1464 Y A A C Q T T K K V S R L E C R G G C A G G Q C C G P L R S K R R K Y S F E C T H-Slit1

1459 N N R K Y I K N L D I V R K C G C T K K C Y D-Slit
1504 D G S S F V D E V E K V V K C G C T R - C V S H-Slit1

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